

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

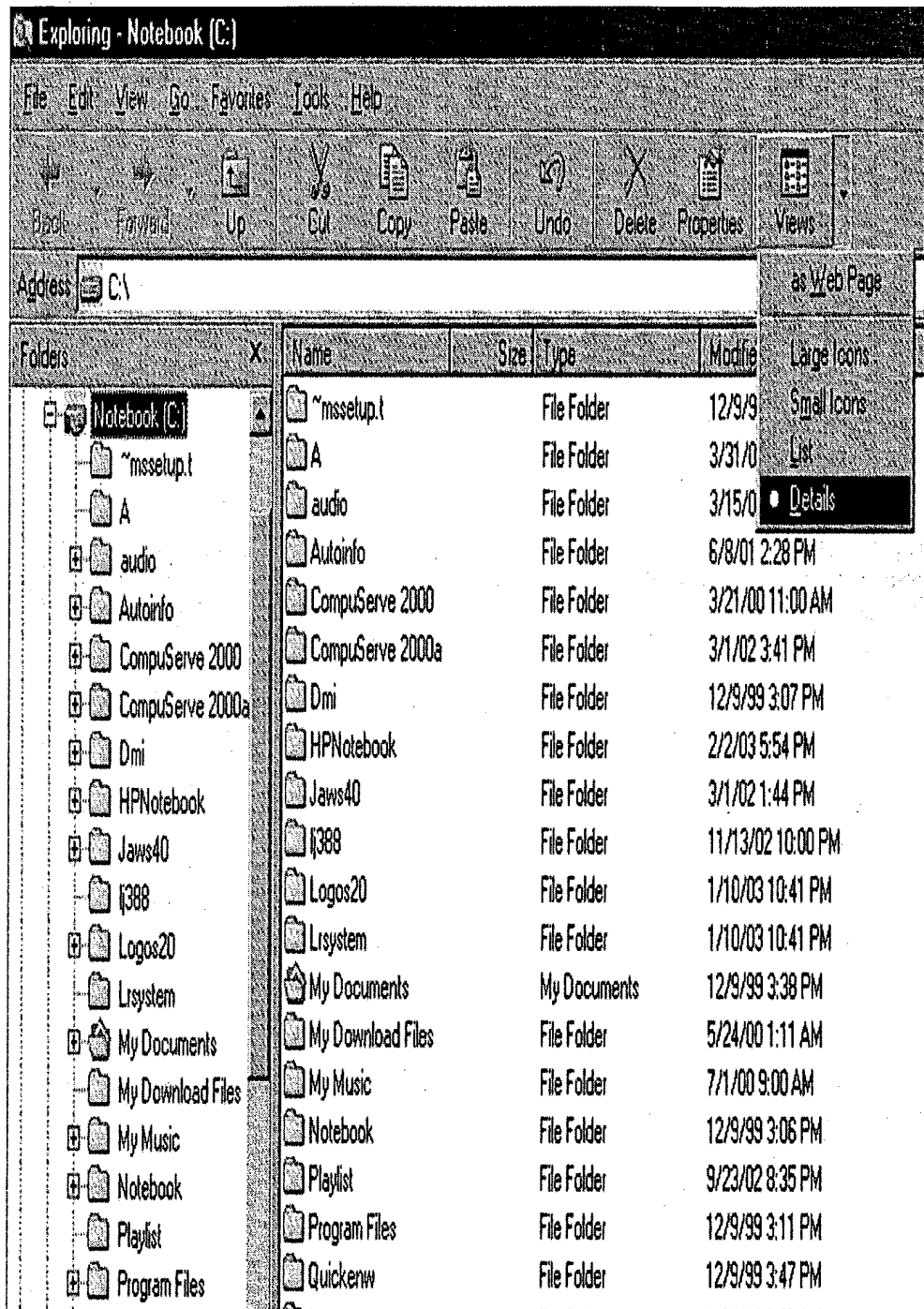


Fig. 1

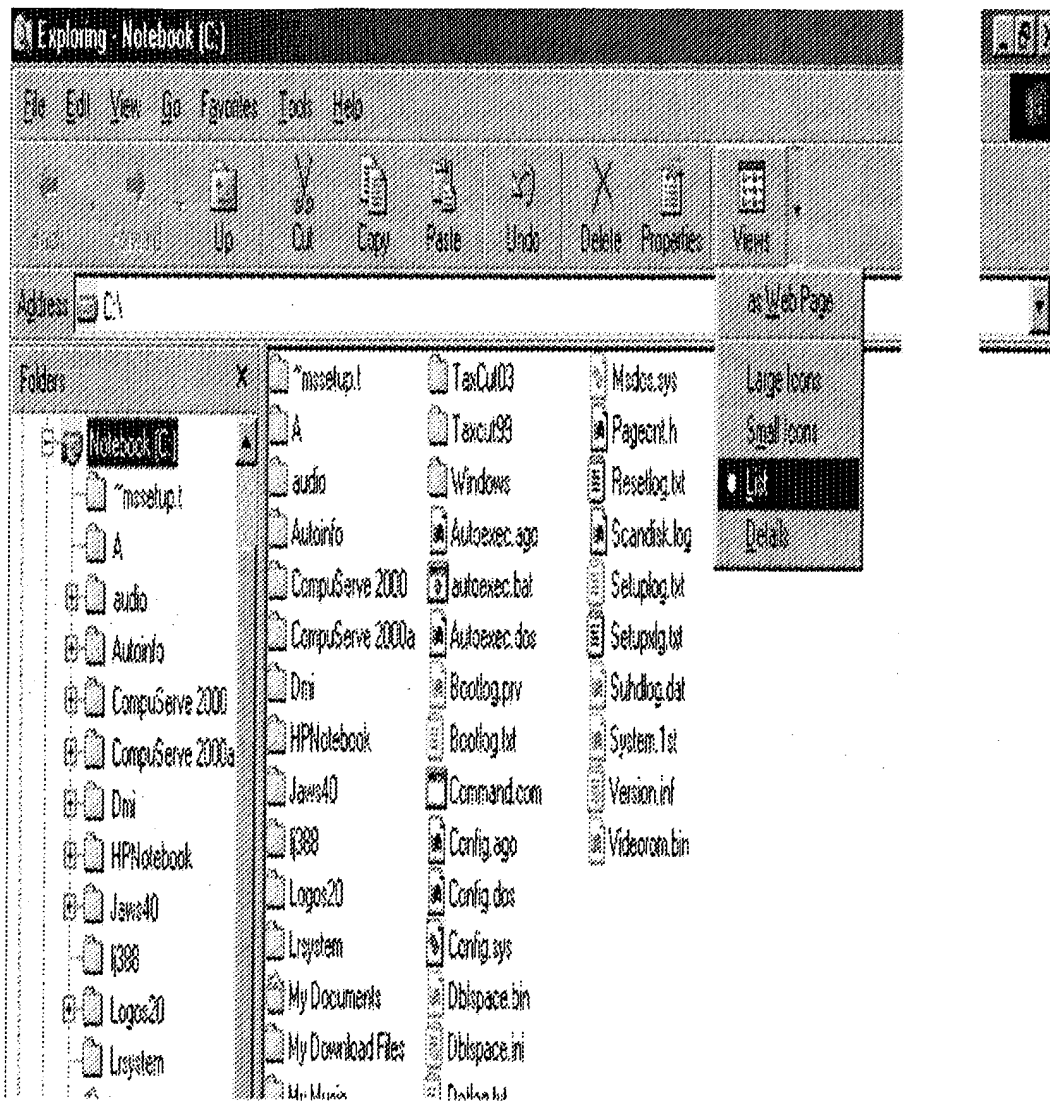


Fig. 2

10:34 PM

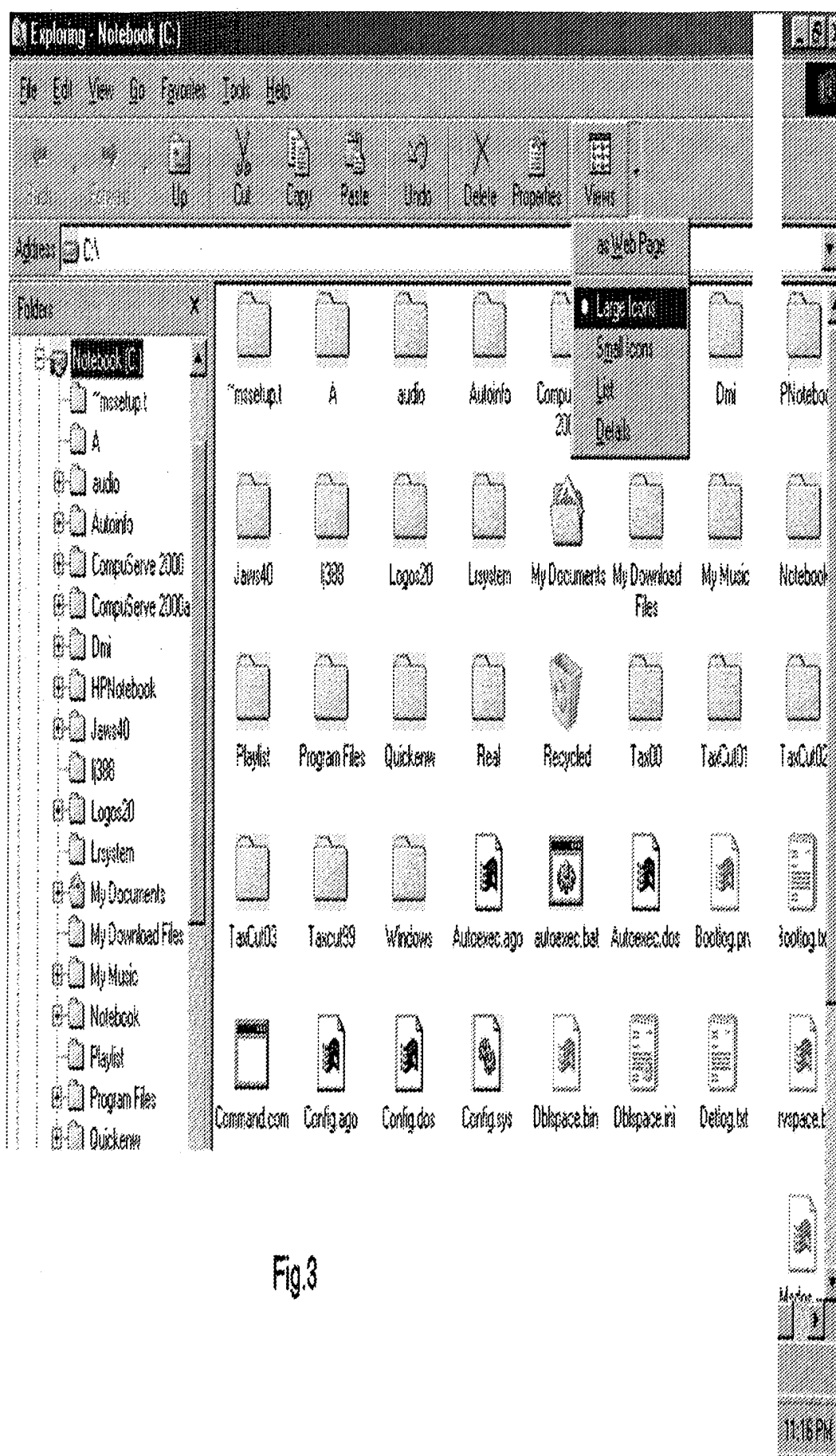


Fig.3

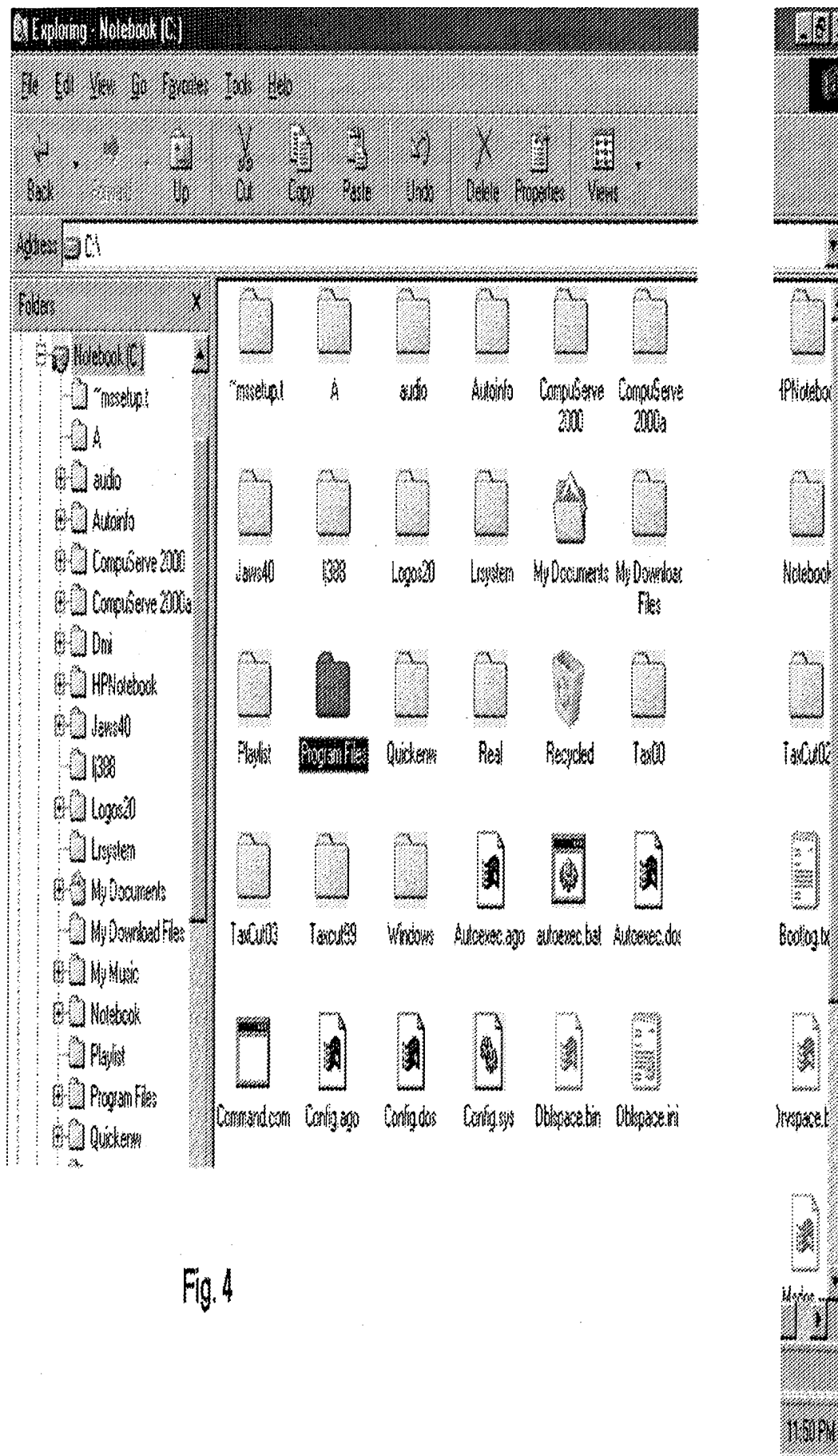


Fig. 4

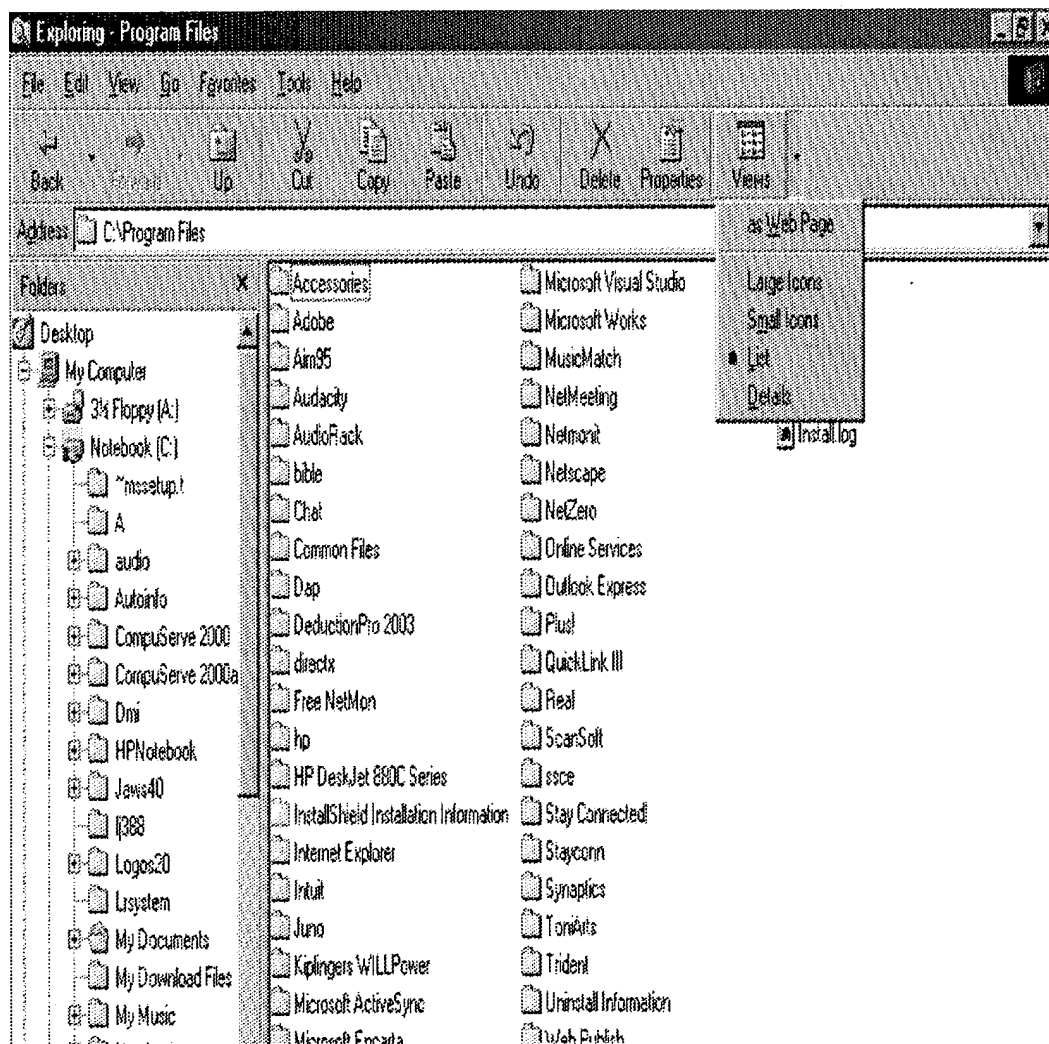


Fig.5



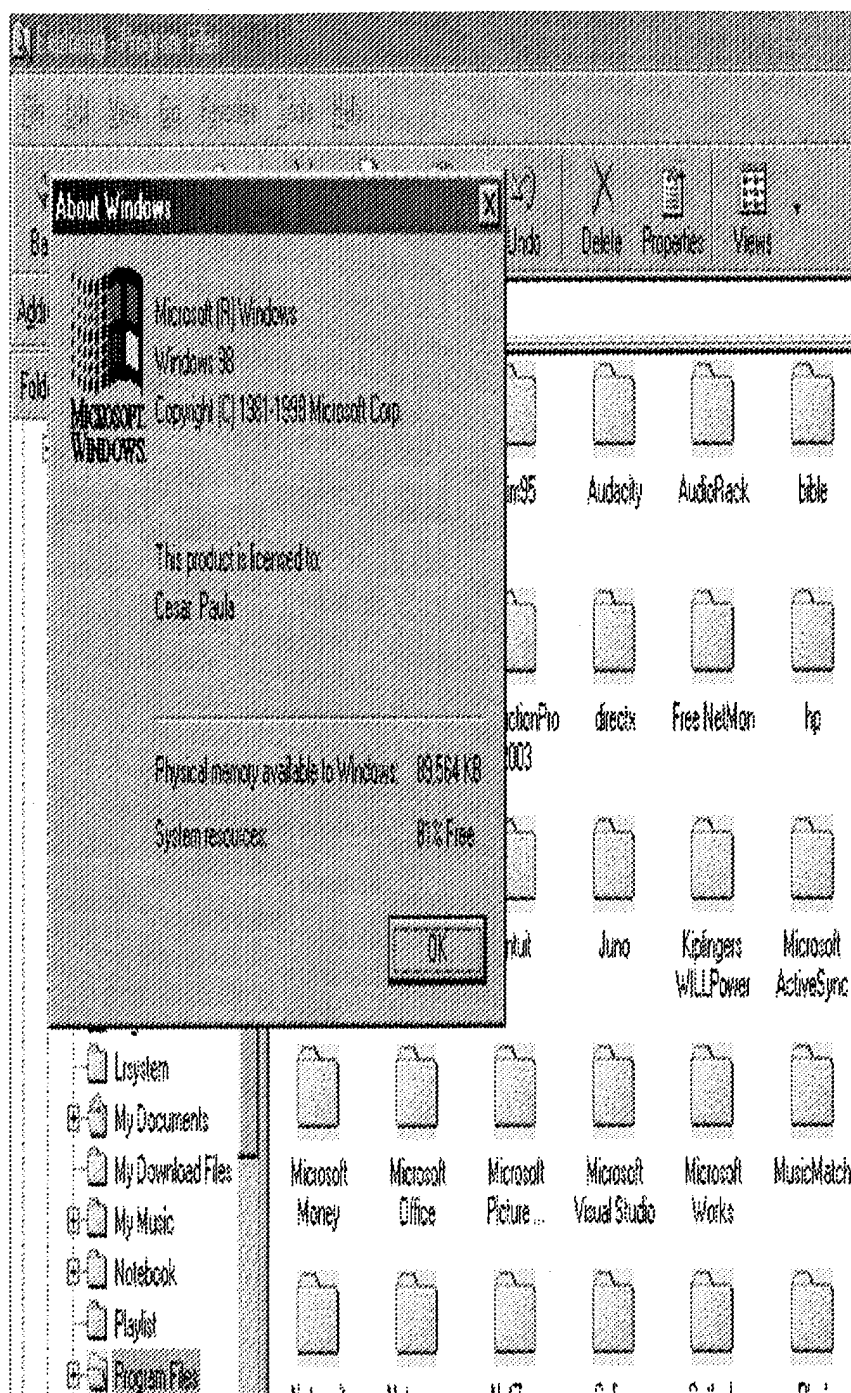


Fig.6

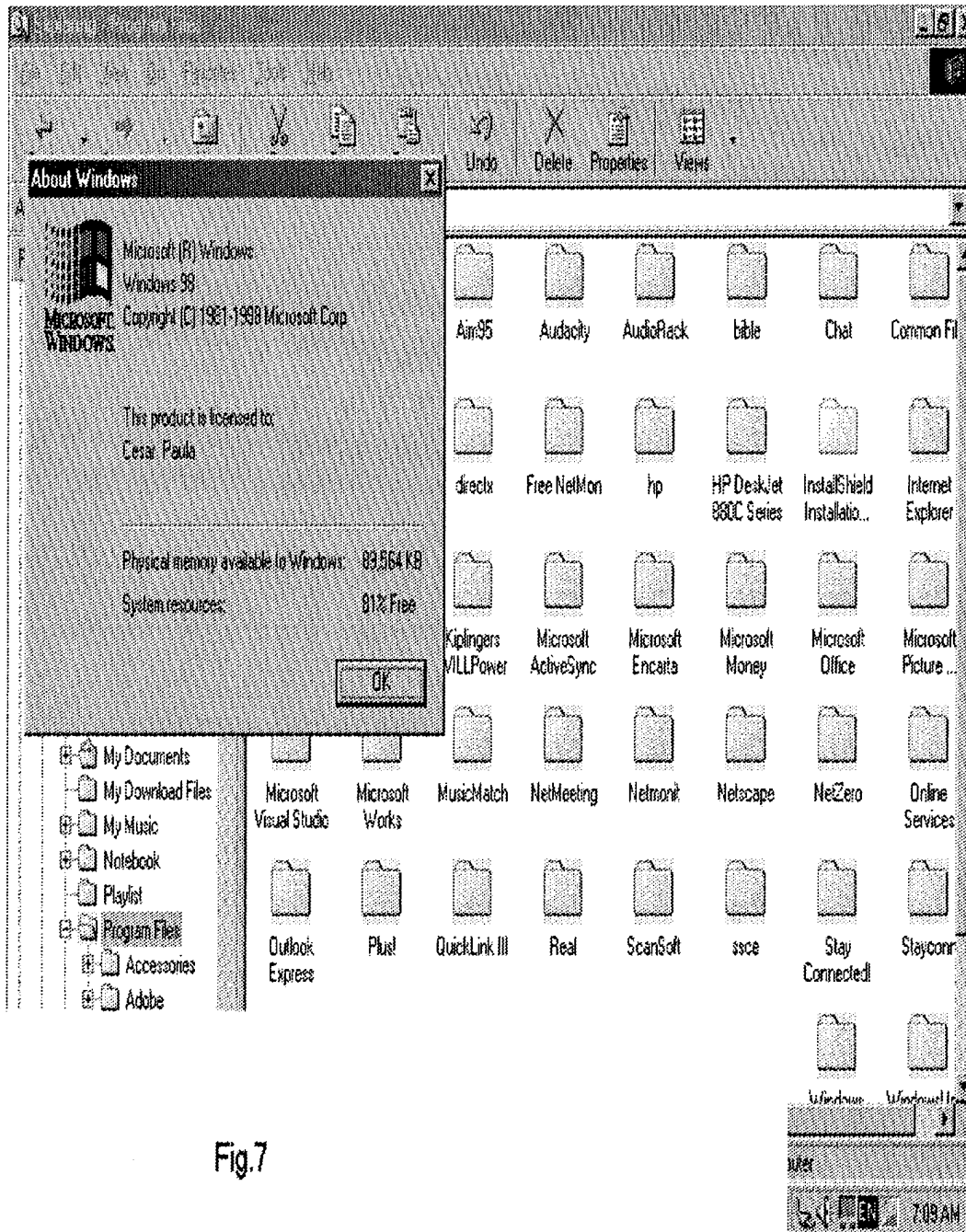


Fig.7

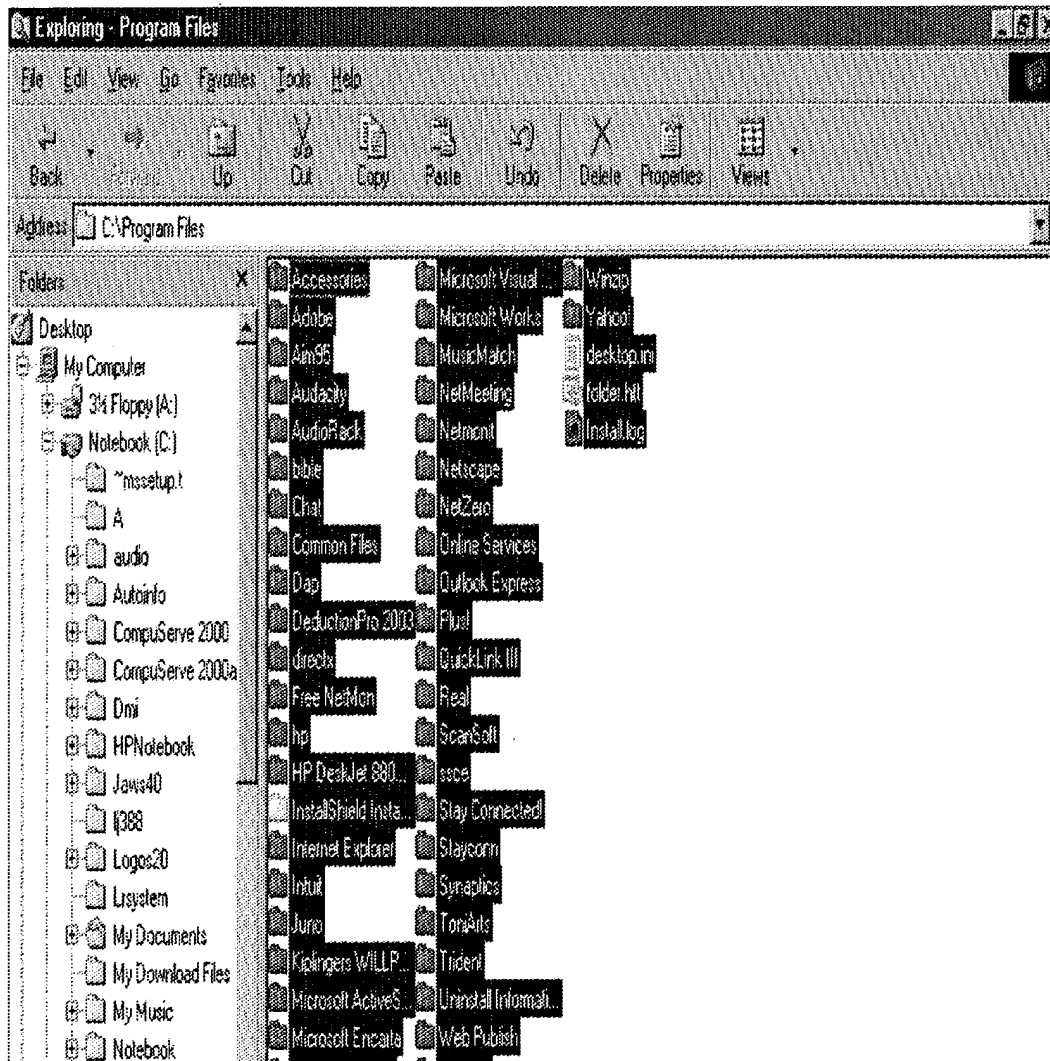
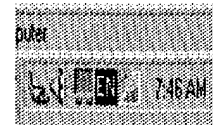


Fig.8



Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	710916	sort\$3 strings files	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 09:31
L2	586	sort\$3 strings files	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2004/06/28 09:31
L3	1	2 korean	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2004/06/28 09:33
L4	5	2 japanese	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2004/06/28 09:33
L5	0	2 ideographic	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2004/06/28 09:33
L6	40	2 group	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2004/06/28 09:33
S1	0	PAULA.XA AND COOPER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/06/28 09:30
S2	0	PAULA.XA COOPER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2004/06/25 19:05
S3	18	PAULA.XA. COOPER	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2004/06/25 19:05

S4	68	("4574395" "4632252" "4783825" "4845761" "4908873" "4912771" "5060980" "5084769" "5228100" "5265242" "5267303" "5282052" "5313572" "5317646" "5321770" "5325444" "5335088" "5339172" "5363214" "5369714" "5384863" "5390259" "5434933" "5434953" "5442778" "5448375" "5455898" "5491760" "5524066" "5537491" "5539841" "5542002" "5598507" "5625770" "5694594" "5708825" "5724579" "5745610" "5764799" "5778397" "5818965" "5835638" "5850490" "5857199" "5859935" "5889886" "5909508" "5930393" "5930809" "5931907" "5953732" "5966455" "5999653" "6009196" "6014452" "6038340" "6038561" "6052481" "6058205" "6108446" "6128410" "6137911" "6173275" "6327387").PN. OR ("6562077").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/25 19:06
S5	14	("4975690" "5023851" "5339391" "5680561" "5757370" "5855015" "5867678").PN. OR ("5930809").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/25 19:08
S6	27	("4573199" "4658374" "4670841" "4915027" "4937745" "4943868" "5107259" "5511193" "5528742" "5533180" "5625375" "5634066" "5678045" "5708844" "5784069" "5786776" "5787452" "5802538" "5859625" "5859648" "5867159" "5923778" "5956656" "5977948").PN. OR ("6377966").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/25 19:11
S7	16	("4594674" "4881197" "5119296" "5206736" "5305207" "5410640" "5586242" "5724031" "5729731" "5761655" "6012069" "6065008" "6094666" "6278462" "6345274" "6377966").PN. OR ("6687879"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2004/06/25 19:14
S8	454	715/535-536.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/25 19:28

S9	110	715/542.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/25 19:28
S10	8	(("5175857") or ("5761610") or ("5864789") or ("5960382")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/06/25 19:28

	Document ID	Issue Date	Title	Current OR	Inventor
1	WO 200190879 A	20011129	String object displaying method for PC, PDA, involves selecting particular sort order criteria, based on which string objects are sorted and displayed		LARSSON, M et al.

	Image Doc. Displayed	PT
1	WO 200190879 A1	

	Document ID	Issue Date	Title	Current OR	Inventor
1	US 4873625 A	19891010	Method and apparatus for extending collation functions of a sorting program	707/7	Archer; Gary D. et al.
2	JP 06348695 A	19941222	WORD PROCESSOR INDEX GENERATION SYSTEM		TAKAGI, TOMOHARU
3	JP 01237756 A	19890922	DOCUMENT PREPARING DEVICE		KASUYA, FUMIO
4	JP 01079863 A	19890324	SYSTEM FOR EXTRACTING WORK INHERENT IN SENTENCE CORRESPONDING TO JAPANESE		OKU, MASAHIRO et al.
5	JP 58201129 A	19831122	HOMOPHONE PROCESSING SYSTEM		SUGIMURA, RYOICHI

	Image Doc. Displayed	PT
1	US 4873625	
2	JP 06348695 A	
3	JP 01237756 A	
4	JP 01079863 A	
5	JP 58201129 A	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
1	US 200400783 64 A1	20040422	Remote scoring and aggregating similarity search engine for use with relational databases	707/3	Ripley, John R. et al.	US 20 04 00 78 36 4	
2	US 200400031 31 A1	20040101	Apparatus and method for monitoring and routing status messages	719/315	Curtis, Bryce Allen	US 20 04 00 03 13 1	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
3	US 200301450 08 A1	20030731	Apparatus and methods for managing the display of SMBIOS data relating to the configuration and components of a computing system	707/100	Burrell, Brandon Mitchell	US 20 03 01 45 00 8	
4	US 200300557 93 A1	20030320	Method, apparatus and program storage device for sorting negotiable instruments	705/80	Charles, Michael A. et al.	US 20 03 00 55 79 3	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
5	US 200300489 34 A1	20030313	Method for identifying polymorphic markers in a population	382/129	Benson, Andrew K.	US 20 03 00 48 93 4	
6	US 200300463 99 A1	20030306	Online playback system with community bias	709/228	Boulter, Jeffrey et al.	US 20 03 00 46 39 9	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
7	US 200200955 25 A1	20020718	Computer processing and programming method using autonomous data handlers	719/318	Fables, Wylci et al.	US 20 02 00 95 52 5	
8	US 200200408 66 A1	20020411	Method and apparatus for displaying information	209/546	Tuneld, Mats et al.	US 20 02 00 40 86 6	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
9	US 6591402 B1	20030708	System and method for performing assertion- based analysis of circuit designs	716/5	Chandra; Rajit et al.	US 65 91 40 2	
10	US 6584492 B1	20030624	Internet banner advertising process and apparatus having scalability	709/203	Cezar; Robert et al.	US 65 84 49 2	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
11	US 6430177 B1	20020806	UNIVERSAL MESSAGING SYSTEM PROVIDING INTEGRATED VOICE, DATA AND FAX MESSAGING SERVICES TO PC/WEB-BASED CLIENTS, INCLUDING A CONTENT MANAGER FOR RECEIVING INFORMATION FROM CONTENT PROVIDERS AND FORMATTING THE SAME INTO MULTIMEDIA CONTAINERS FOR DISTRIBUTION TO WEB-BASED CLIENTS	370/356	Luzeski; Nicholas M. et al.	US 64 30 17 7	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	
12	US 6408314 B1	20020618	Method of performing a high- performance sort which gains efficiency by reading input file blocks sequentially	707/205	Liu; Peter Chi-Hsiung	US 64 08 31 4	
13	US 6404762 B1	20020611	UNIVERSAL MESSAGING SYSTEM PROVIDING INTEGRATED VOICE, DATA AND FAX MESSAGING SERVICES TO PC/WEB-BASED CLIENTS, INCLUDING A SESSION MANAGER FOR MAINTAINING A SESSION BETWEEN A MESSAGING PLATFORM AND THE WEB-BASED CLIENTS	370/352	Luzeski; Nicholas M. et al.	US 64 04 76 2	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
14	US 6301245 B1	20011009	Universal Messaging system providing integrated voice, data and fax messaging services to PC/web-based clients, including a large object server for efficiently distributing voice/fax messages to web-based clients	370/352	Luzeski; Nicholas M. et al.	US 63 01 24 5	
15	US 6226411 B1	20010501	Method for data compression and restoration	382/232	Hiyoshi; Kiyomitsu	US 62 26 41 1	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
16	US 6185600 B1	20010206	Universal viewer/browser for network and system events using a universal user interface generator, a generic product specification language, and product specific interfaces	709/203	Spence; Kurt E. et al.	US 61 85 60 0	
17	US 6167368 A	20001226	Method and system for indentifying significant topics of a document	704/9	Wacholder; Faye (Nina) P.	US 61 67 36 8	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
18	US 5841658 A	19981124	Bulk mail entire preparation method and kit	705/406	Bouchard; Paul W.	US 58 41 65 8	
19	US 5832511 A	19981103	Workgroup network manager for controlling the operation of workstations within the computer network	707/201	Beck; Robert Earl et al.	US 58 32 51 1	
20	US 5787386 A	19980728	Compact encoding of multi-lingual translation dictionaries	704/8	Kaplan; Ronald M. et al.	US 57 87 38 6	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
21	US 5764518 A	19980609	Self reproducing fundamental fabricating machine system	700/95	Collins; Charles M.	US 57 64 51 8	
22	US 5603025 A	19970211	Methods for hypertext reporting in a relational database management system	707/2	Tabb; Lloyd et al.	US 56 03 02 5	
23	US 5586322 A	19961217	Workgroup organized network manager with workstation comparison system	707/200	Beck; Robert E. et al.	US 55 86 32 2	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
24	US 5523946 A	19960604	Compact encoding of multi-lingual translation dictionaries	704/2	Kaplan; Ronald M. et al.	US 55 23 94 6	
25	US 5438659 A	19950801	Object-action user interface management system	715/505	Notess; Mark H. et al.	US 54 38 65 9	
26	US 5421007 A	19950530	Key space analysis method for improved record sorting and file merging	707/7	Coleman; Andrew et al.	US 54 21 00 7	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
27	US 5404510 A	19950404	Database index design based upon request importance and the reuse and modification of similar existing indexes	707/2	Smith; Gregory S. et al.	US 54 04 51 0	
28	US 5386558 A	19950131	Method and apparatus for executing control system functions in a computer system	707/104 .1	Maudlin; Craig L. et al.	US 53 86 55 8	
29	US 3713107 A	19730123	FIRMWARE SORT PROCESSOR SYSTEM	712/300	Barsamian; Harut	US 37 13 10 7	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
30	JP 10333895 A	19981218	METHOD AND DEVICE FOR PLOTING JOB NETWORK DIAGRAM		SATO, KAZUHIRO	JP 10 33 38 95 A	
31	JP 08167852 A	19960625	METHOD AND DEVICE FOR COMPRESSING DATA		SATO, NOBUKO et al.	JP 08 16 78 52 A	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. P Di sp la ye d	T
32	JP 07262223 A	19951013	AUTOMATIC INDEX GENERATION DEVICE		KUBOTA, HIROYUKI	JP 07 26 22 23 A	
33	JP 01093798 A	19890412	DIVIDED LABELING DEVICE		ABE, YOSHIHARU	JP 01 09 37 98 A	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
34	JP 58201129 A	19831122	HOMOPHONE PROCESSING SYSTEM		SUGIMURA, RYOICHI	JP 58 20 11 29 A	
35	JP 57090757 A	19820605	SORT-MERGE PROCESS SYSTEM		OKADA, MAKOTO	JP 57 09 07 57 A	

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
36	NA9309123	19930901	Software Compiler for Analyzing and Measuring Programs			NA 93 09 12 3	
37	NN9210150	19921001	DekoVert V Program for OS/2 Memory Mapped Performance Hooks.				
38	NB9011395	19901101	Updating Loosely- Coupled SQL/DS Databases.				
39	NN8809154	19880901	Quick File Commenting Utility for CMS File				

	Document ID	Issue Date	Title	Current OR	Inventor	Im ag e Do c. Di sp la ye d	P T
40	NN870636	19870601	Tdb 06-87 P.36-37 Improvement in Controlling UNIX Processes				